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Vision is our mission, Orlaco deploys the development, manufacture, supply and service of camera and display systems that will improve safety and efficiency of all vehicles, machinery and offshore vessels. Our systems will give the end user a view on each blind spot and will create comfort, efficiency and improved working conditions. Our active approach will support market demands and innovations and will lead to enthusiastic ambassadors in the market; our Customers.

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User manual

SmartView H.264

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The camera and display systems from Orlaco comply with the latest CE, ADR, EMC and mirror-directive regulations. All products are manufactured in accordance with the ISO 9001-2000 quality management system, ISO 14001 environmental management systems and all Ex products with the IECEx scheme and ATEX directives.

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SmartView H.264

Contents

If you have any questions or issues concerning the operation of this equipment, consult the relevant section in the manual or contact the Orlaco Products BV Service department.

1. Introducing

This user manual describes the Orlaco SmartView H.264 software. Orlaco SmartView H.264 is a complete video view software system for up to 16 cameras. SmartView H.264 runs a Windows service on a dedicated PC. View and control easily the cameras over TCP/IP on a local computer or network. After the easy installations (Installation Manual IM0060310) you've got a powerful video viewing application for various camera-system configurations.

- Viewing of high quality video for multiple cameras in multiple configurations
- Support H.264 digital video codec
- The SmartView software is simple and fast. It has a low latency and a high quality image.
- Control Orlaco PTZ or AF-Zoom cameras by using mouse, tochscreen, trackerball or optional joystick
- Easy and intuitive navigation
- Many possibilities of different split views and selectable video streams
- PTZ presets and master-presets for controlling multiple PTZ simultaneously *NEW*
- Sequential camera switcher
- Its possible to mix and match different types of Orlaco cameras in one SmartView system.
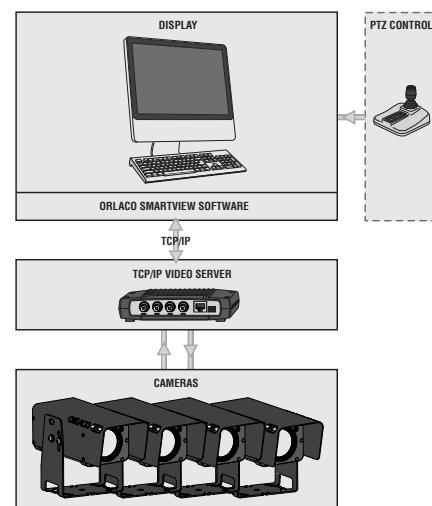
basic overview SmartView components

First, follow these instructions to define the preset location of your PTZ camera:

1. Select on mouseover the video stream view of the PTZ camera that you want to define a preset location for. (border of the video view blinks yellow)
2. Use the PTZ controls to adjust the view of that camera to the preset location that you would like to define.
3. When the view is in the right position, select a preset number ⓪-④ that you want to use and press and hold the button for 5 seconds. (green button color disappears)
4. Repeat steps 1-3 for each PTZ camera location that you want to define for you SmartView system.

After you have setup your presets, you can follow these instructions to use them:

1. Select on mouseover the video stream view of the PTZ camera that you want to control. (border of the video view blinks yellow)
2. Click on the preset number ⓪-④ that you would like to use.

4. Troubleshooting

Master preset (optional)
The preset buttons on the left side of the display allow you to set up to 4 master preset view layouts. The master preset view layout allow an operator to quickly adjust all the camera views to all the locations that you define in one view layout.

When all the video views is in the right position, select a master preset number ⓪-④ that you want to use and press and hold the button for 5 seconds. (green button color disappears)

Problem	Possible cause / Solution
1. SmartView is asking for a registration key.	- Please contact the administrator or installer of your SmartView system.
2. 'Connecting to camera' appears (black image)	- Check the video cable connection to the video server or there is no camera connected.
3. 'Error opening video' appears (red image)	- Check the ethernet connection LED's. Are ethernet cables connected? - Are the PC and the video server assigned IP addresses in the same network range? Try to ping the video server from the PC: • Click Start / Run • Enter 'cmd' and press enter • Now a text console opens. Type the command ping `<ip address>` • If the video server and PC are properly configured, the ping command will show propery replys. If 'request timed out' appears, check the IP settings. - TCP/IP network problems; bandwidth too low. - Power problems; check the power supply of the video server / cameras. - CPU consumption is full?

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3.4 Controlling the camera

If an autofocus zoom camera is connected, these buttons are visible if the mouse goes over a view and can be used to control the camera functions:

Zoom in
Zoom out
Brightness (used for enhanced image when looking at dark objects in a light environment)
Night vision (Enable this option to increase light sensitivity in low-light environments.)

3.4 control camera buttons

If a pan & tilt (PTZ) camera is connected, these extra buttons can be used to control the camera:

Horizontal movement to the left
Horizontal movement to the right
Vertical movement up
Vertical movement down
Lock all control buttons in a video stream

Using the mouse to control the PTZ camera: For horizontal and vertical movements; Click and hold left mouse button and move the mouse horizontal (Pan) or vertical (Tilt). For zoom in and out; Click and hold right mouse button and move up (zoom in) or move down (zoom out).

Pan & Tilt   Zoom in/Zoom out

When SmartView software is installed on multiple computers in a camera system it is possible to lock all the control buttons by one user. Other users can not use the control buttons (the buttons are red) until these are unlocked by the locker. (figure 3.5)

It is also possible to control all these camera functions with the keyboard commands. (refer to chapter 2 "Button overview")

3.5 Camera presets (only valid for Orlaco PTZ)

The PTZ controls built into SmartView allow you to set up to 4 (default) preset locations for each PTZ camera that the system is controlling. The preset locations allow an operator to quickly adjust the camera view to the locations that you define. These easy setup instructions cover how define PTZ preset locations and how to those locations after they are set up.

3.5 Control buttons are locked by a user
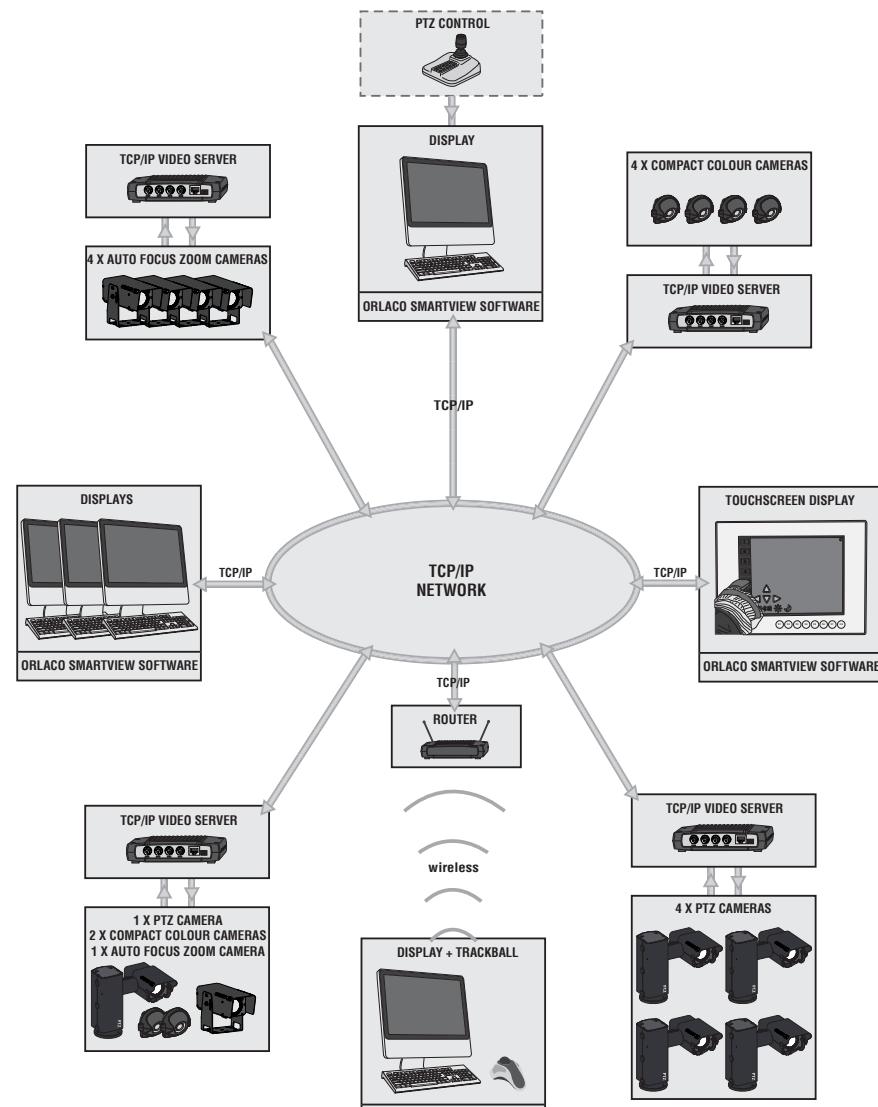
SmartView 16 cameras overview (example)

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2. Button overview

Default buttons					
Pan & Tilt			**Preset**		
Buttons	Functions	Keyboard	Buttons	Functions	Keyboard
▽	up	↑	① - ④	preset 1 - 4	
△	down	↓	**View**		
◁	left	←	Buttons	Functions	Keyboard
▷	right	→	🔲 - 🔲	full view 1 - 16	0-16
🔒	PTZ lock	l	⊞	quad view	
Camera			💻	2-inset top view	
Buttons	Functions	Keyboard	🔲	vertical-split view	
🔍	zoom in	+	🔄	sequential switcher	
🔍	zoom out	-	**Window**		
☀	brightness	b	Buttons	Functions	Keyboard
🌙	night vision	0	☒	close window	Esc
			▭	min./max. window	f

Optional buttons					
View			**Control**		
Buttons	Functions	Keyboard	Buttons	Functions	Keyboard
▭	horizontal-split view		🔲	wiper	
▤	1-2 top view		🔲	washer	
▤	2-1 bottom view		💡	lamp	
▥	1-2 left view		**Focus**		
▥	2-1 right view		Buttons	Functions	Keyboard
▤	2-inset bottom view		▣	auto focus	/
▦	2-inset left view		▣	focus near	,
▦	2-inset right view		⊞	focus far	.
▦	16 cam view				

3. Usage

3.1 Interface
After starting SmartView the program runs in a window. Depending on the custom settings you will see the default interface like figure 3.1.

The buttons on the left side of the display are used to select a view layout. With the buttons in the left bottom corner you can close ☒, minimize ▭ and maximize ▭ the SmartView program.

Each camera view has a spinner ◐ in the right top corner. There is a correctly continuous video stream if the spinner spin counterclockwise all the time.

If your spinner doesn't spin the video view will automatically display a red warning image "Error opening video" Please refer to chapter 4.

3.2 View options
The default interface has four different view layouts: full view 🔲 - 🔲, quad view ⊞ , 2-inset top view 💻 and vertical-split view 🔲 (figure 3.2.) Optional: 16 cam 🔲 and other inset view layouts.

Please refer to chapter 2 "Button overview" if your interface has other view layouts buttons.

Click on one of the view layout buttons and the image will change.

For continuous rotation of all video streams; click on the camera sequential switcher 🔄.(on / off)

3.3 Switching between video streams

There are 3 ways to switch from video streams; Using the full view buttons 🔲 - 🔲 or keyboard commands. (see overview chapter 2) And you can choose a video stream by click right mouse button in a view.

Select a video view. The border line of a video view blinks yellow by a mouse over. Click right mouse button. A "Choose stream" menu will pop-up. Now you can select a video stream. (figure 3.3) The selected video stream will open in the same view.

3.1 interface (quad view)

full view

vertical-split view

2-inset top view

quad view

3.2 default view layouts

3.3 choose stream menu

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